



**CITY OF LODI
COUNCIL COMMUNICATION**

AGENDA ITEM **E-17**

AGENDA TITLE: Adopt Resolution Amending Traffic Resolution No. 97-148 by Approving Speed Limit Reduction from 50 to 40 Miles Per Hour on Turner Road between West City Limits and Evergreen Drive

MEETING DATE: August 20, 2008

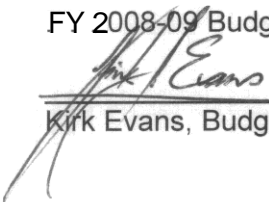
PREPARED BY: Public Works Director

RECOMMENDED ACTION: Adopt a resolution amending Traffic Resolution No. 97-148 by approving the speed limit reduction from 50 to 40 miles per hour (mph) on Turner Road between the west City limits and Evergreen Drive, as shown on Exhibit A.

BACKGROUND INFORMATION: Staff has recently updated Engineering and Traffic Surveys on Turner Road and on Woodhaven Drive. Based on the results of the surveys, we are recommending no change to the existing 35 mph speed limit on Woodhaven Drive; however, on Turner Road, we are recommending the speed limit be reduced from 50 mph to 40 mph between the west City limits and Evergreen Drive.

FISCAL IMPACT: The estimated cost to replace two speed limit signs and two speed limit legends is \$600.

FUNDING AVAILABLE: FY 2008-09 Budget, Account No. 3215031


Kirk Evans, Budget Manager


F. Wally Sandelin
Public Works Director

Prepared by Rick S. Kiriu, Senior Engineering Technician

FWS/RSK/pmf

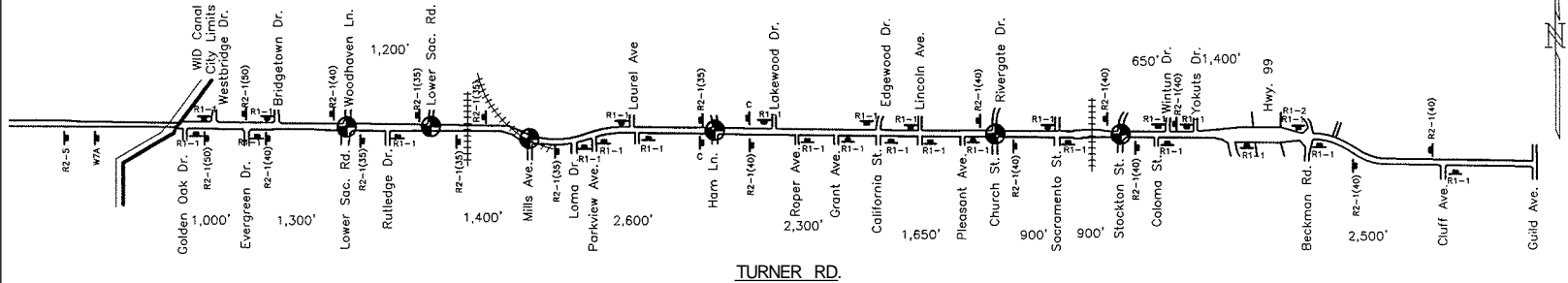
Attachment

cc: City Attorney
Police Chief
Streets and Drainage Manager
Senior Traffic Engineer

APPROVED: 
Blair King, City Manager

ENGINEERING AND TRAFFIC SURVEY

SEE NARRATIVE FOR
BACKGROUND INFORMATION



TURNER RD.

	1/2 MILE	1/2 MILE	1/2 MILE	1/2 MILE	1/2 MILE	1/2 MILE	1/2 MILE	1/2 MILE
SPEED TABLE								
ROADWAY WIDTH								
NO. OF LANES	2-3w/TWTL&BL	4w/TWTL		4		4+TWTL	4	2
MEDIAN (TYPE)			NONE			12' Raised Conc		NONE
TRAFFIC SIGNAL DATA								
AVERAGE DAILY TRAFFIC								
OBS. SPEED-CRITICAL.85th% FF								
WE								
-PACE(%)	EE	35-45(77)	30-40(89)	31-41(84)	32-42(83)	36-46(83)	31-41(71)	35-45(74)
WE		36-46(77)	30-40(90)	29-39(85)	32-42(84)	33-43(80)	34-44(85)	35-45(79)
-MEDIAN,50th% EE		41	36	35	37	41	77	11
WE								
EXISTING SPEED ZONE	55 mph(County)	50 mph	40 mph	35 mph			40 mph	
PROPOSED SPEED ZONE	55 mph(County)	40 mph		35 mph			40 mph	
LEGEND:								
- SIGN LOCATION								
R1-1 - STOP SIGN								
R2-1() - SPEED LIMIT SIGN (MPH)								
R1-2 - YIELD SIGN								
C - ASSEMBLY C (SCHOOL 25 MPH SIGN)								
W2-2 - INTERSECTION WARNING SIGN								
W3-5a - SPEED REDUCTION SIGN								
- TRAFFIC SIGNAL								
- CITY LIMIT								
- CRITICAL SPEED								
- LOWER LIMIT OF PACE								
ACCIDENT PLOT	YR: 2006	0	11 11	0	1111 2 1	1 2 1	5 1 1	1 2 1 1
	YR: 2007		1 1	11 1	121 11 111	1111 1 111	114 11	2 1 1 1 1
ACCIDENT RATE-ACC./MILL. VEH.-MI.		0.4	2.0	0.8	2.6	1.4	3.5	2.2

DR: RSK	No.	Date	Revision	Appr	Approved By
CH:					
DATE: August 2008					

CITY OF LODI
 PUBLIC WORKS DEPARTMENT

TURNER RD.
 W. City Limits to Guild Avenue

SPEED ZONE SURVEY

Exhibit A

SPEED ZONE REPORT - Turner Road

- REFERENCE - Speed zone surveys are performed in the City of Lodi following the California MUTCD in accordance with Section 40802 (b) of the California Vehicle Code.
- STUDY CRITERIA - Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are:

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the nearest five mile per hour (mph) increment to the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment may indicate the need for a further reduction of five mph.

Accidents - Accident records for two recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM). The average Citywide accident rate is 3.4 ACC/MVM.

Unexpected Conditions – Highway, traffic, and roadside conditions not readily apparent to the driver were considered. When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile may be justified.

Other Factors - The following factors were considered: residential density, pedestrian and bicycle safety, roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial driveway characteristics and pedestrian traffic in the roadway without sidewalks.

- STUDY RESULT
Sixteen radar surveys were performed and the 85th percentile speeds ranged from 39 to 46 mph as shown below:

<u>Street Segment</u>	<u>Eastbound</u>	<u>Westbound</u>
West City Limits to Lower Sacramento Rd/Woodhaven Ln	45 mph	46 mph
Lower Sac Rd/Woodhaven Ln to Lower Sac (N)	39 mph	39 mph
Lower Sac (N) to Mills Avenue	39 mph	39 mph
Mills Avenue to Ham Lane	40 mph	42 mph
Ham Lane to Church Street	45 mph	46 mph
Church Street to Stockton Street	42 mph	43 mph
Stockton Street to East City Limits	45-46 mph	45-46 mph

West City Limits to Lower Sacramento Road/Woodhaven Lane

The 85th percentile speeds on this segment are 45 and 46 mph. The 50th percentile speed is 41 mph. The accident rate of 0.4 on this segment is lower than the citywide average and higher than the 0.0 rate from the 2003 study. Based solely on prevailing speeds, the speed limit could be posted at 45 mph; however, due to the continuing low accident rate and bicycle safety, we recommend a 40 mph speed limit on this segment.

Lower Sacramento Road/Woodhaven Lane to Lower Sacramento Road (North)

The 85th percentile speed on this segment is 39 mph. The 50th percentile speeds are 35 and 36 mph. The accident rate of 2.0 on this segment is lower than the citywide average and below the 4.4 rate from the 2003 survey. Based solely on prevailing speeds, the speed limit on this segment could be posted at 40 mph; however, due to the reduced accident rate at the current speed limit, we recommend retaining the 35 mph speed limit on this segment.

Lower Sacramento Road (North) to Mills Avenue

The 85th percentile speed on this segment is 39 mph. The 50th percentile speeds are 35 and 36 mph. The accident rate of 0.8 on this segment is below the citywide average and lower than the 1.3 rate from the 2003 survey. Based solely on prevailing speeds, the speed limit on this segment could be posted at 40 mph; however, due to the continuing low accident rate at the current speed limit, we recommend retaining the 35 mph speed limit on this segment.

Mills Avenue to Ham Lane

The 85th percentile speeds on this segment are 40 and 42 mph. The 50th percentile speeds are 37 and 38 mph. The accident rate of 2.6 on this segment is below the citywide average and lower than the 3.9 rate from the 2003 survey. Based solely on the prevailing speeds, the speed limit could be set at 40 mph; however, due to the reduced accident rate at the current speed limit and residential density, we recommend retaining the 35 mph speed limit on this segment.

Ham Lane to Church Street

The 85th percentile speeds on this segment are 45 and 46 mph. The 50th percentile speeds are 40 and 41 mph. The accident rate of 1.4 on this segment is below the citywide average and lower than the 3.6 rate from the 2003 survey. Based solely on prevailing speeds, the speed limit could be posted at 45 mph; however, due to the reduced accident rate at the current speed limit and residential density, we recommend retaining the 40 mph speed limit on this segment.

Church Street to Stockton Street

The 85th percentile speeds on this segment are 42 and 43 mph. The 50th percentile speeds are 37 and 38 mph. The accident rate of 3.5 on this segment is slightly higher than the citywide average and higher than the 3.2 rate from the 2003 survey. Based on prevailing speeds and reasonable accident rate at the current speed limit, we recommend retaining the 40 mph speed limit on this segment.

Stockton Street East City Limits

The 85th percentile speeds on this segment range from 45 to 46 mph. The 50th percentile speeds range from 40 to 41 mph. The accident rate of 2.2 on this segment is below the citywide average and slightly lower than the 2.8 rate from the 2003 survey. Based solely on prevailing speeds, the speed limit on this segment could be posted at 45 mph; however, due to the continuing low accident rate at the current speed limit and commercial driveway characteristics, we recommend retaining the 40 mph speed limit on this segment.

◦ CONCLUSION

The recommended speed limits are shown below:

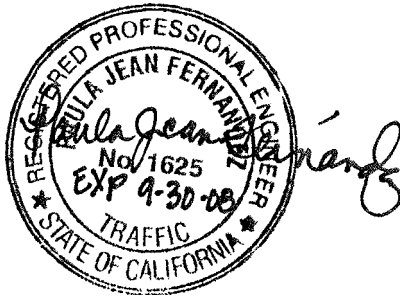
STREET SEGMENT

West City limits to Evergreen Drive
Evergreen Dr to Lower Sacramento Rd/Woodhaven Ln
Lower Sacramento Rd/Woodhaven Ln to Lower Sac (N)
Lower Sac (N) to Mills Avenue
Mills Avenue to Ham Lane
Ham Lane to Church Street
Church Street to Stockton Street
Stockton Street to East City Limits

POSTED SPEED LIMIT

50 to 40 mph
40 mph (no change)
35 mph (no change)
35 mph (no change)
35 mph (no change)
40 mph (no change)
40 mph (no change)
40 mph (no change)

Paula J. Fernandez.
Senior Traffic Engineer



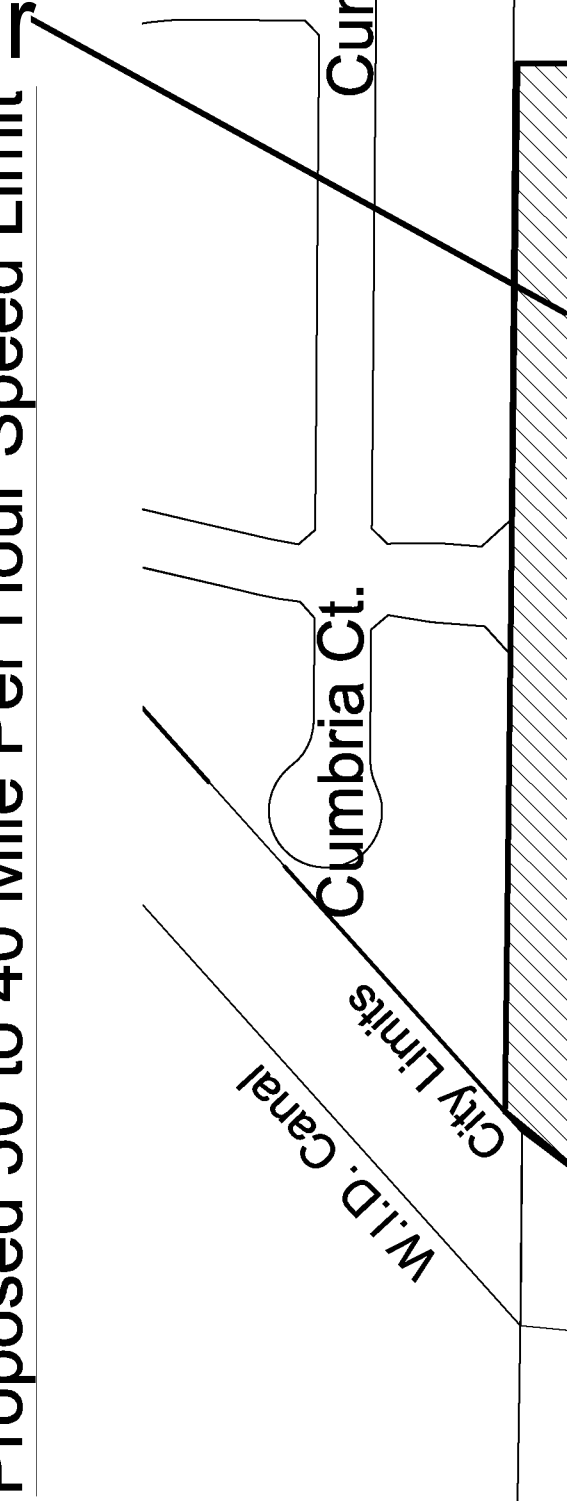


CITY OF LODI

PUBLIC WORKS DEPARTMENT

Turner Road
West City Limit to Evergreen Drive
Proposed 50 to 40 Mile Per Hour Speed Limit

Proposed 50 to 40 Mile Per Hour Speed Limit



W.I.D. Canal
City Limits

Cumbria Ct.

Cumbria Wy.

Turner Rd.

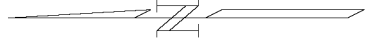
Golden Oak Dr.

Pearwood Cir.

Mosswood Dr.

Evergreen Dr

ia Ct



RESOLUTION NO. 2008-171

A RESOLUTION OF THE LODI CITY COUNCIL AMENDING
TRAFFIC RESOLUTION NO. 97-148 BY REDUCING SPEED
LIMIT ON TURNER ROAD BETWEEN WEST CITY LIMITS AND
EVERGREEN DRIVE FROM 50 MILES PER HOUR TO
40 MILES PER HOUR

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WHEREAS, staff has recently updated Engineering and Traffic Surveys on Turner Road; and

WHEREAS, staff recommends the speed limit be reduced from 50 miles per hour to 40 miles per hour between the west City limits and Evergreen Drive.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council does hereby approve the speed limit reduction from 50 miles per hour to 40 miles per hour on Turner Road between the west City limits and Evergreen Drive; and

BE IT FURTHER RESOLVED that the City of Lodi Traffic Resolution No. 97-148, Section 7, "Speed Limits," is hereby amended by reducing the speed limit on Turner Road between the west City limits and Evergreen Drive from 50 miles per hour to 40 miles per hour.

Dated: August 20, 2008

I hereby certify that Resolution No. 2008-171 was passed and adopted by the City Council of the City of Lodi in a regular meeting held August 20, 2008, by the following vote:

AYES: COUNCIL MEMBERS – Hansen, Hitchcock, Johnson, Katzakian,
and Mayor Mounce

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None



RANDI JOHL
City Clerk